

FIG. 1.

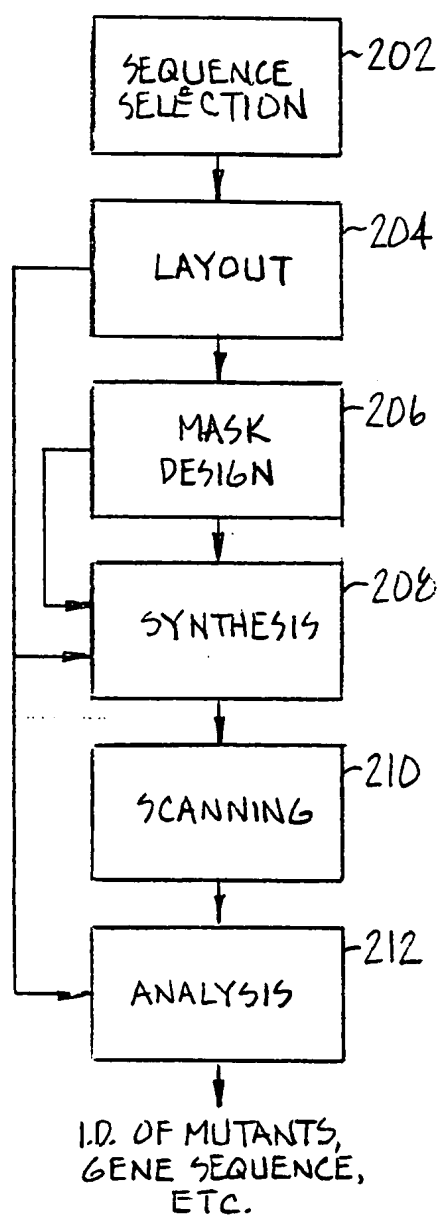


FIG. 2A.

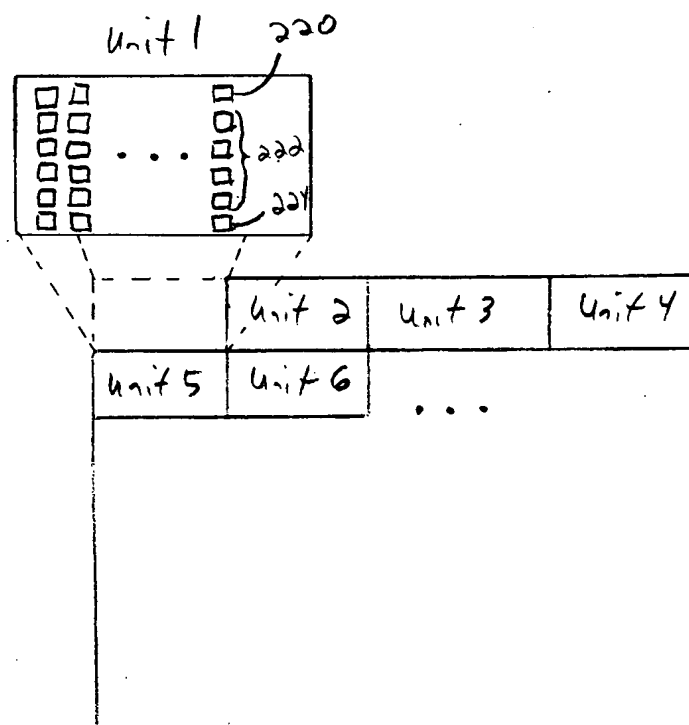
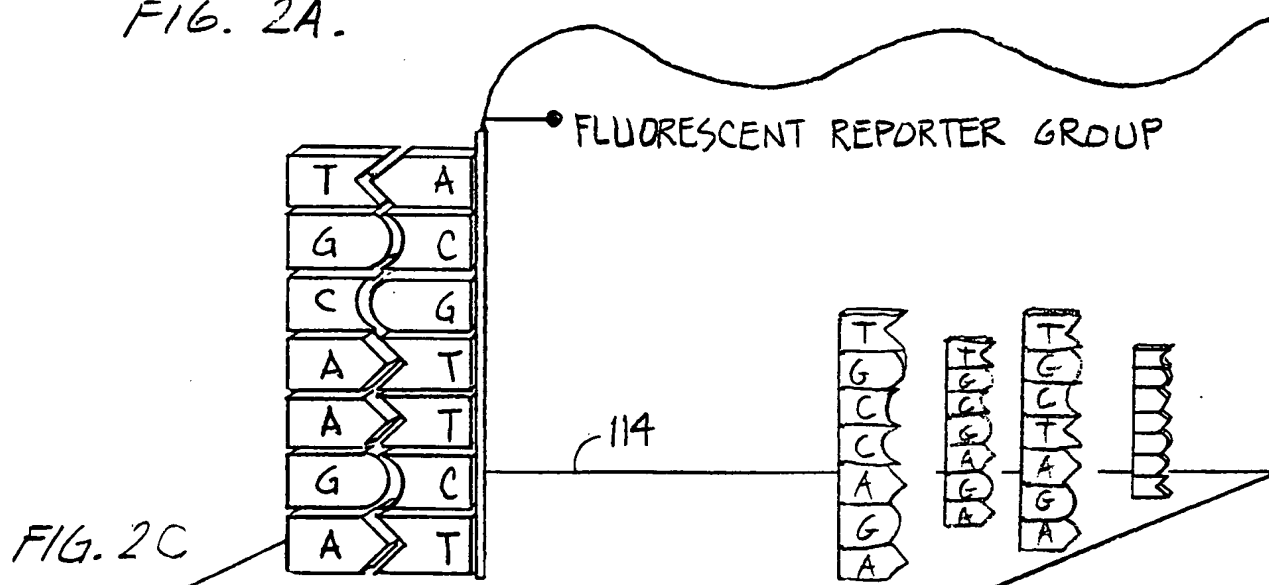
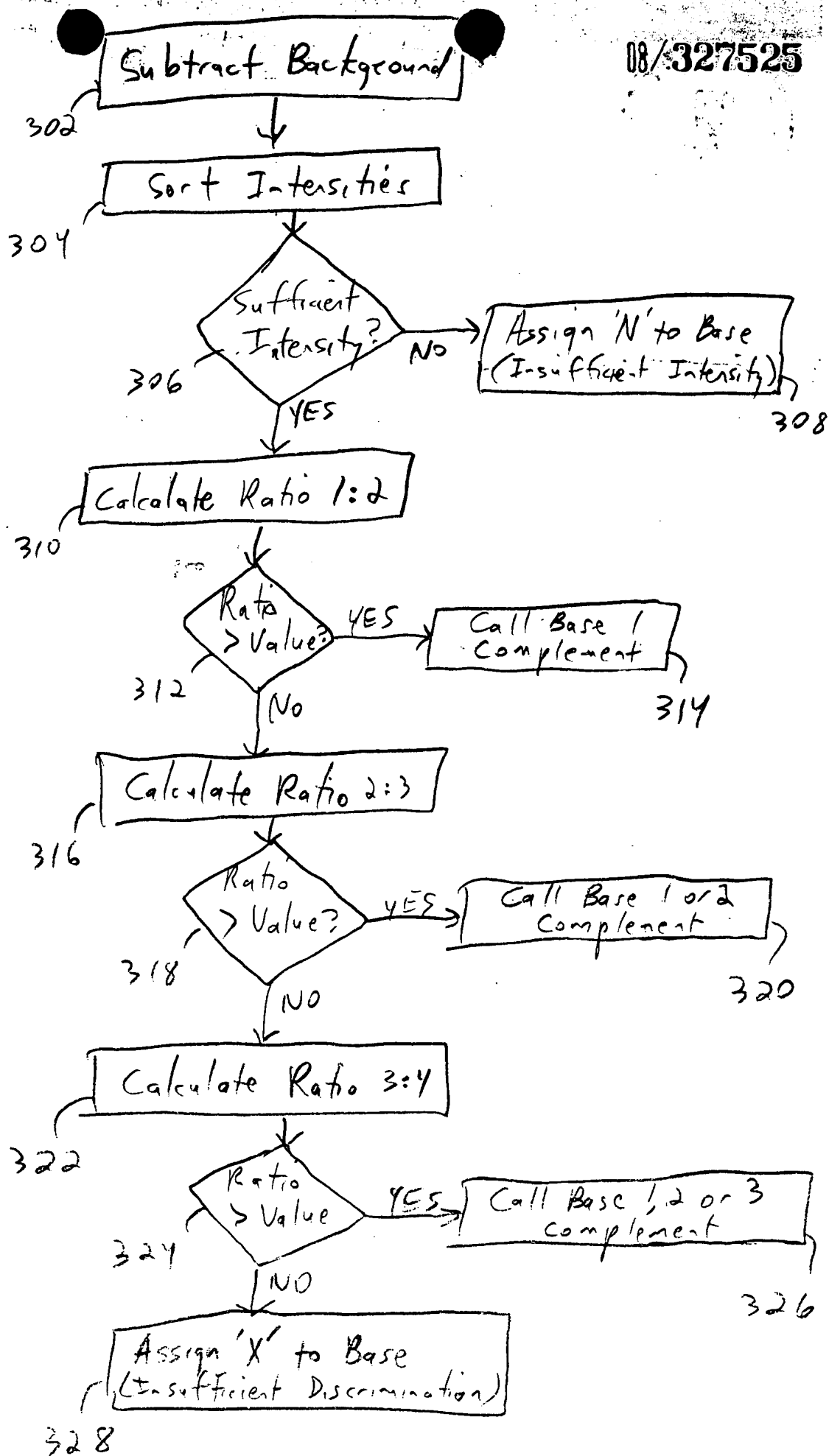


FIG. 2B



# Intensity Ratio Method

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Subtract Background

Reference  
Method

402

Reference  
Sufficient  
Intensity?

NO

Ref. Fail

407

YES

Ref. Pass

406

Calculate Ref. Base Ratios  
 $\text{Ratio}_i = \text{Base}_{WT} / \text{Base}_i$  for  $i = 1 \text{ to } 4$ 

408

Sample  
Sufficient  
Intensity?

NO

Sample Fail

413

YES

Sample Pass

412

Calculate Sample Base Ratios  
 $\text{Ratio}_i = \text{Base}_{\text{highest}} / \text{Base}_i$  for  $i = 1 \text{ to } 4$ 

414

Ref.  
and Sample  
Fail?

YES

Base = N, Code = 9

418

416

NO

Only  
Ref. Fail?

YES

Base = N, Code = 4

422

420

NO

Only  
Sample  
Fail?

YES

Base = N, Code = 2

426

424

NO

Calculate Ratio of Ratios Ref: Sample

428

All Ratios  
of Ratios < Lower  
Ratio Cutoff?

YES

Base = WT, Code = 0

432

430

NO

All Ratios  
of Ratios < Upper  
Ratio Cutoff?

YES

Base = ambiguity, Code = 3

436

438

Base = Highest Ratio  
Complement Code = 1

432

Fig. 1A

		Reference					Sample					Ratio of Ratios						
Position	WT	Background	A	C	G	T	Background	A	C	G	T	A/A	C/C	G/G	T/T	Base	Confidence	
463	C	P	7.2	9.9	1.0	5.6	P	6.4	2.3	1.0	14.5	1.1	4.3	1.0	0.4	G	1	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	

Fig. 4B

# Subtract Background

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Reference Method

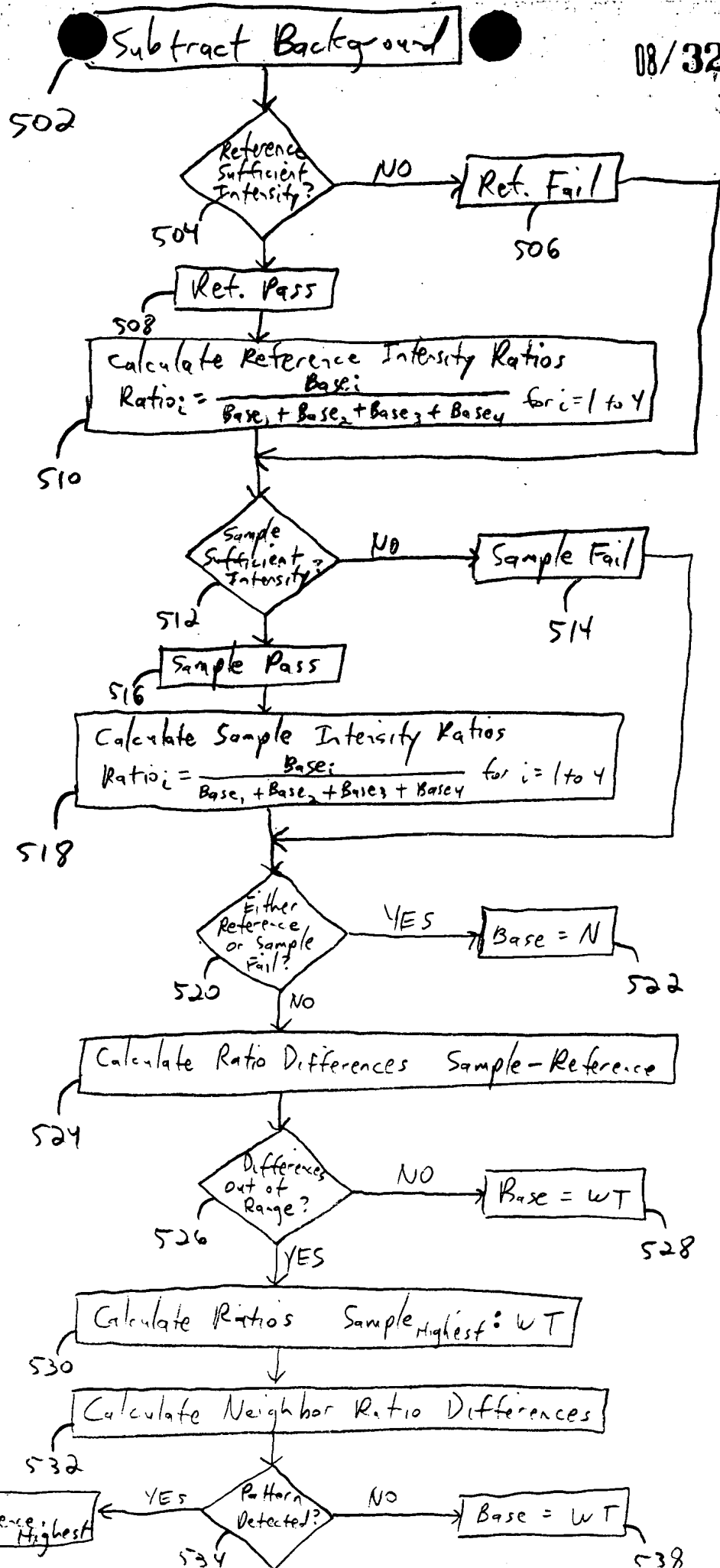


Fig. 5 A

BCK SUBTRACTED INTENSITIES																									
ry090203.cq1	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9								
Position:	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250								
WildType:	A	A	A	C	C	C	A	A	T	C	C	A	C	A	T	C	A								
Called:	A	A	A	C	C	C	A	A	T	C	C	A	C	A	T	C	A								
a	148	193	165	17	70	38	282	388	97	31	18	158	15	223	178	128	154								
c	57	100	42	167	345	278	38	99	139	249	249	13	244	28	257	250	175								
g	28	32	20	16	65	17	27	107	100	13	9	11	10	30	142	59	55								
t	9	15	10	6	41	14	27	79	281	6	2	1	7	16	320	52	37								
Σ	240	340	238	207	522	347	374	671	598	298	279	182	276	298	898	487	421								
wtR	148	193	165	167	345	278	282	388	261	249	249	158	244	223	320	250	154								
maxR	148	193	165	167	345	278	282	388	261	249	249	158	244	223	320	250	175								
mc090407.cq1																									
Position:	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250								
WildType:	A	A	A	C	C	C	A	A	T	C	C	A	C	A	T	C	A								
Called:	M	M	A	C	X	C	A	X	X	C	C	A	C	A	X	X	M								
a	194	238	150	44	191	126	283	332	234	58	49	242	25	337	288	180	258								
c	209	291	74	202	337	277	74	199	175	259	288	27	378	65	379	324	234								
g	92	72	34	29	114	52	85	871	231	30	17	16	47	71	254	104	109								
t	25	39	16	11	98	29	68	208	267	11	8	5	23	57	427	97	85								
Σ	520	639	274	288	738	484	489	1307	906	357	362	291	472	529	1346	705	684								
wtE	194	238	150	202	337	277	283	332	267	259	288	242	376	337	427	324	258								
maxE	209	291	150	202	337	277	283	332	267	259	288	242	376	337	427	324	258								
wtE/wtR	1.31	1.23	0.91	1.21	0.98	1.00	1.00	0.88	1.02	1.04	1.15	1.54	1.54	1.51	1.34	1.30	1.66								
maxE/wtR	1.42	1.51	0.91	1.21	0.98	1.00	1.00	1.48	1.02	1.04	1.15	1.54	1.54	1.51	1.34	1.30	1.66								
n-l + n-r	0.79	-0.63	0.64	-0.25	0.01	0.14	0.94	0.14	-0.10	-0.27	0.38	0.04	0.14	-0.13	-0.40										
n-l	0.09	-0.60	0.30	-0.24	0.02	0.01	0.48	-0.48	0.02	0.11	0.38	0.01	-0.04	-0.17	-0.04										
n-r	0.60	-0.30	0.24	-0.02	-0.01	-0.48	0.48	-0.02	-0.11	-0.38	-0.01	0.04	0.17	0.04	-0.36										
n-l d(n-r)		-0.90	0.54	-0.25	0.01	-0.48	0.94	-0.48	-0.10	-0.27	0.38	0.04	0.14	-0.13											
n-r d(n-l)		-0.90	0.54	-0.25	0.01	-0.48	0.94	-0.48	-0.10	-0.27	0.38	0.04	0.14	-0.13											
l(n-l) - (n-r)l		0.29	0.07	0.22	0.02	0.49	0.02	0.44	0.13	0.50	0.39	0.03	0.21	0.21											
a+b-c		-2.10	1.01	-0.73	0.00	-1.44	1.88	-1.40	-0.33	-1.03	0.38	0.06	0.06	-0.48											
SUM mV SUM wt intensities	2.18	1.88	1.15	1.39	1.41	1.39	1.31	1.95	1.52	1.20	1.30	1.80	1.71	1.78	1.50	1.45	1.63								
n-l + n-r	2.60	1.45	2.18	2.04	2.05	1.61	2.77	2.04	1.71	1.89	2.17	2.03	2.22	1.88	1.88										
n-l + n-r	0.22	-0.48	0.10	0.02	0.03	-0.36	0.54	-0.08	-0.21	-0.10	0.10	0.02	0.17	-0.11	-0.12										
n-l	-0.28	-0.73	0.23	0.03	-0.02	-0.09	0.64	-0.43	-0.32	0.10	0.30	0.10	0.07	-0.27	-0.06										
n-r	0.73	-0.23	-0.03	0.02	0.09	-0.64	0.43	0.32	-0.10	-0.30	-0.10	-0.07	0.27	0.06	-0.18										
NORMALIZED INTENSITIES																									
WILDTYPE																									
A	0.61	0.57	0.70	0.08	0.13	0.11	0.75	0.57	0.18	0.10	0.07	0.87	0.08	0.75	0.20	0.28	0.37								
C	0.24	0.29	0.18	0.81	0.66	0.80	0.10	0.15	0.23	0.83	0.80	0.07	0.88	0.09	0.29	0.51	0.42								
G	0.11	0.09	0.08	0.08	0.12	0.05	0.07	0.16	0.17	0.04	0.03	0.08	0.04	0.10	0.16	0.12	0.13								
T	0.04	0.04	0.04	0.03	0.08	0.04	0.07	0.12	0.44	0.02	0.01	0.01	0.03	0.05	0.36	0.11	0.09								
MUTANT																									
a	0.37	0.37	0.55	0.15	0.26	0.26	0.58	0.25	0.28	0.16	0.14	0.83	0.05	0.64	0.21	0.28	0.37								
c	0.40	0.45	0.27	0.71	0.46	0.57	0.15	0.15	0.19	0.72	0.80	0.09	0.80	0.12	0.28	0.46	0.34								
g	0.18	0.11	0.12	0.10	0.15	0.11	0.13	0.44	0.25	0.08	0.05	0.08	0.10	0.13	0.19	0.15	0.16								
t	0.05	0.08	0.08	0.04	0.13	0.08	0.14	0.16	0.29	0.03	0.02	0.02	0.05	0.11	0.32	0.14	0.12								
MT - WT (NORMALIZED INTENSITIES)																									
Position:	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250								
WildType:	A	A	A	C	C	C	A	A	T	C	C	A	C	A	T	C	A								
Called:	M	M	A	C	X	C	A	X	X	C	C	A	C	A	X	X	M								
a	-0.24	-0.20	-0.15	0.07	0.12	0.15	-0.18	-0.32	0.09	0.06	0.07	-0.04	0.00	-0.11	0.01	0.00	0.01								
c	0.17	0.16	0.09	-0.10	-0.20	-0.23	0.05	0.00	-0.04	-0.11	-0.10	0.03	-0.08	0.03	-0.01	-0.05	-0.07								
g	0.07	0.02	0.04	0.02	0.03	0.08	0.08	0.28	0.09	0.04	0.01	0.00	0.08	0.03	0.03	0.03	0.03								
t	0.01	0.02	0.02	0.01	0.05	0.02	0.07	0.04	-0.14	0.01	0.01	0.01	0.02	0.05	-0.04	0.03	0.04								

Fig. 5 B

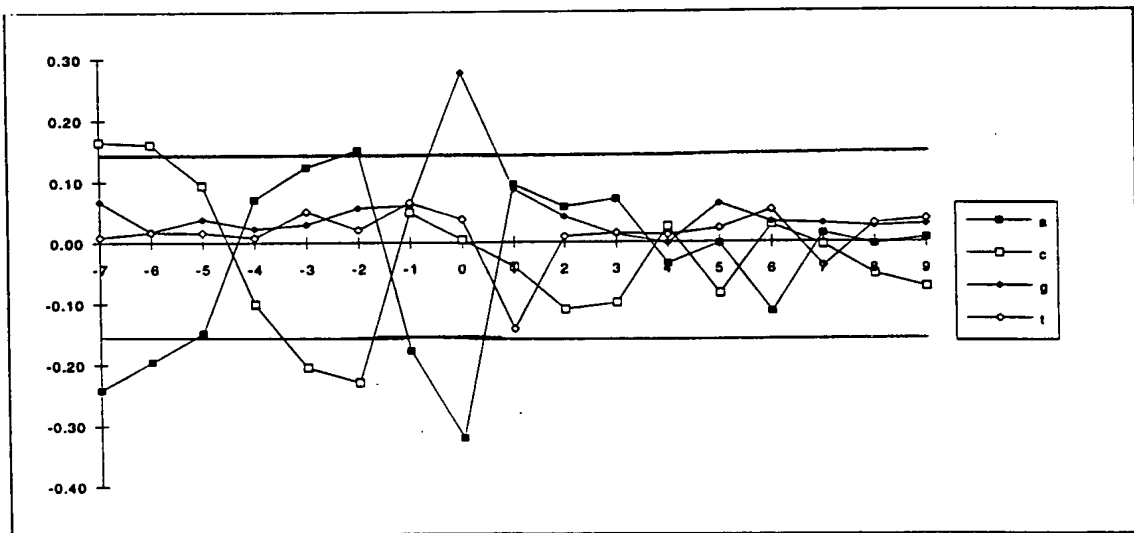


Fig. 5C



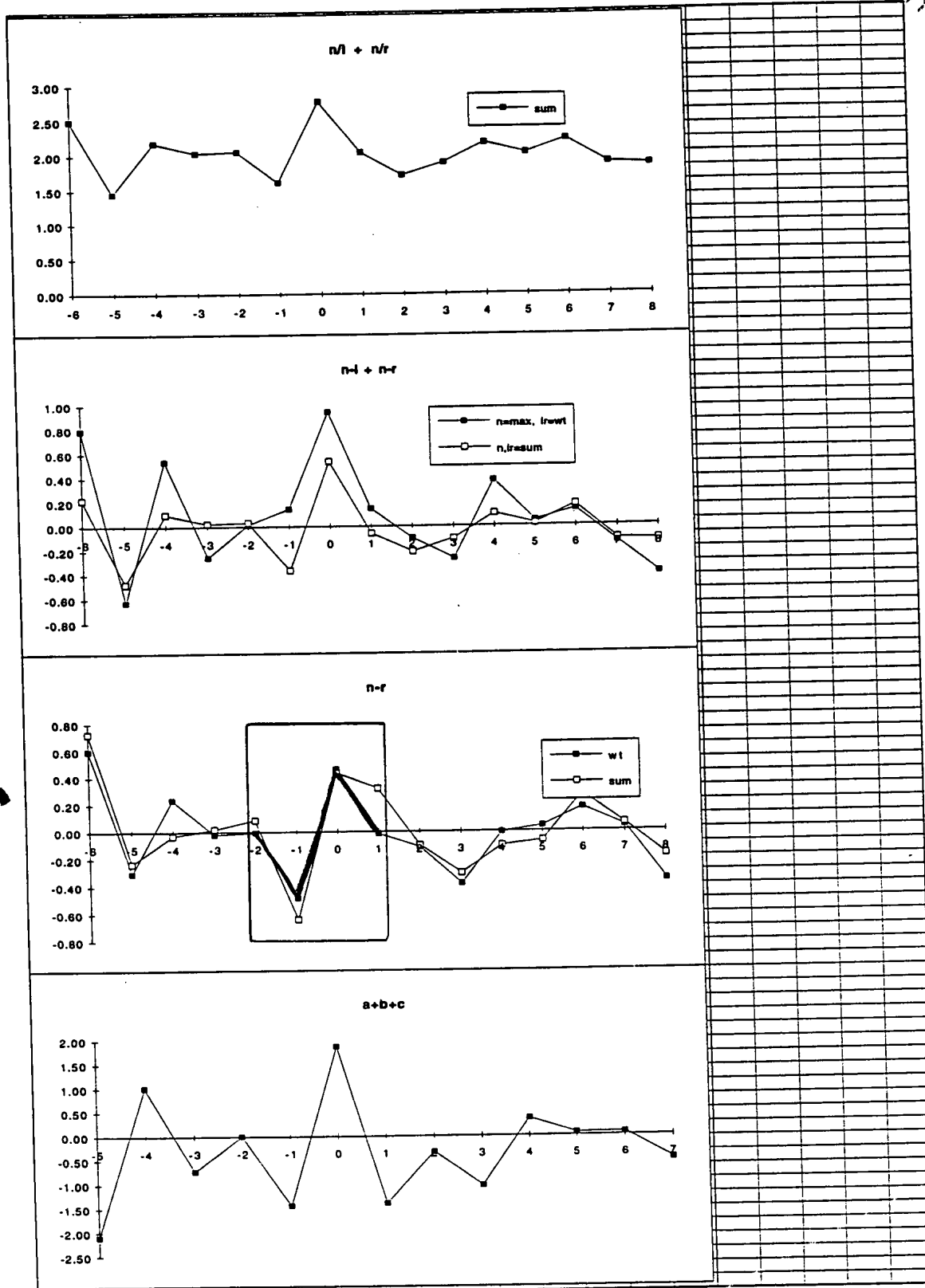


Fig. 5D

## Subtract Background

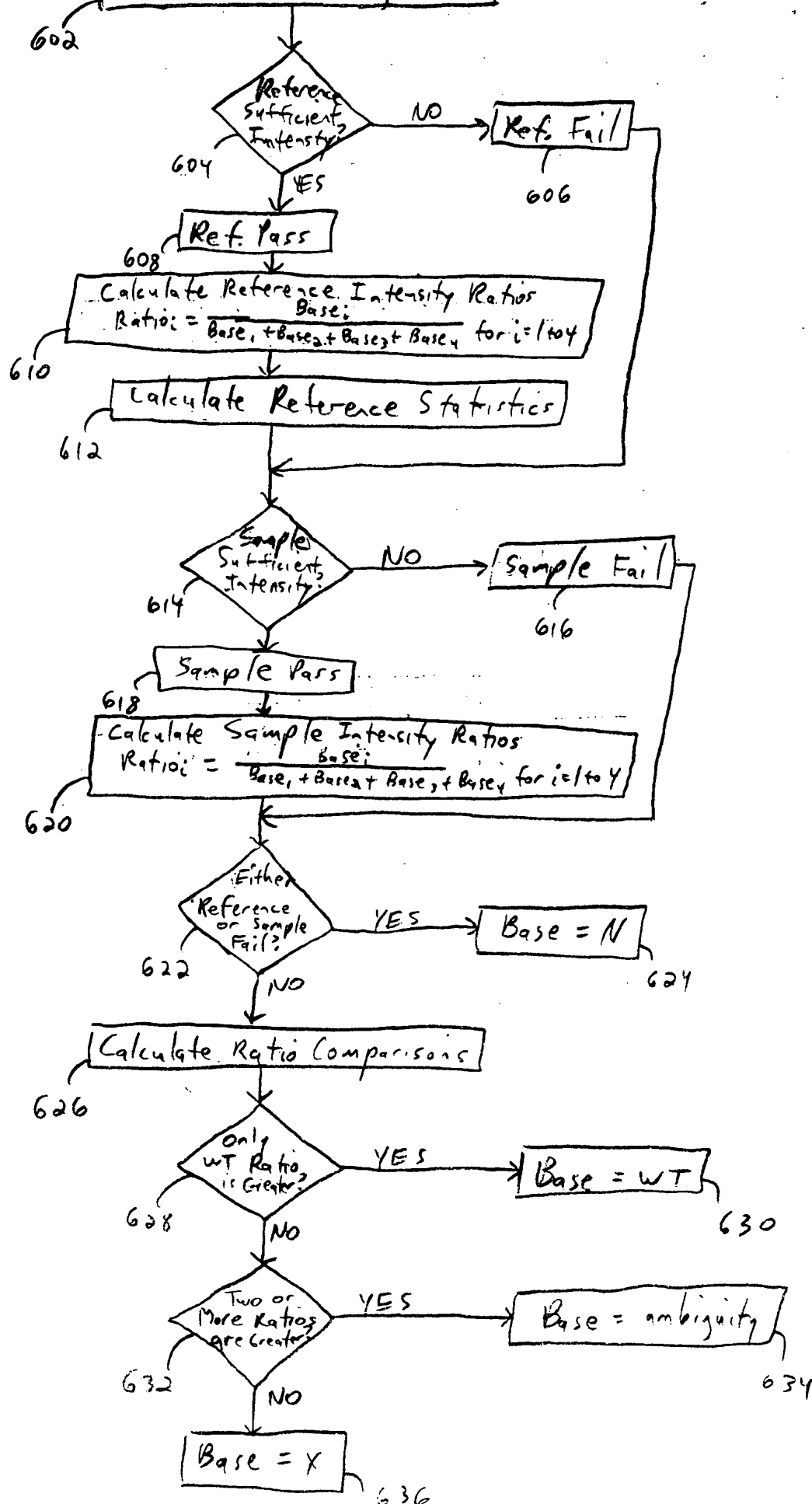
Statistical  
Method

Fig 6

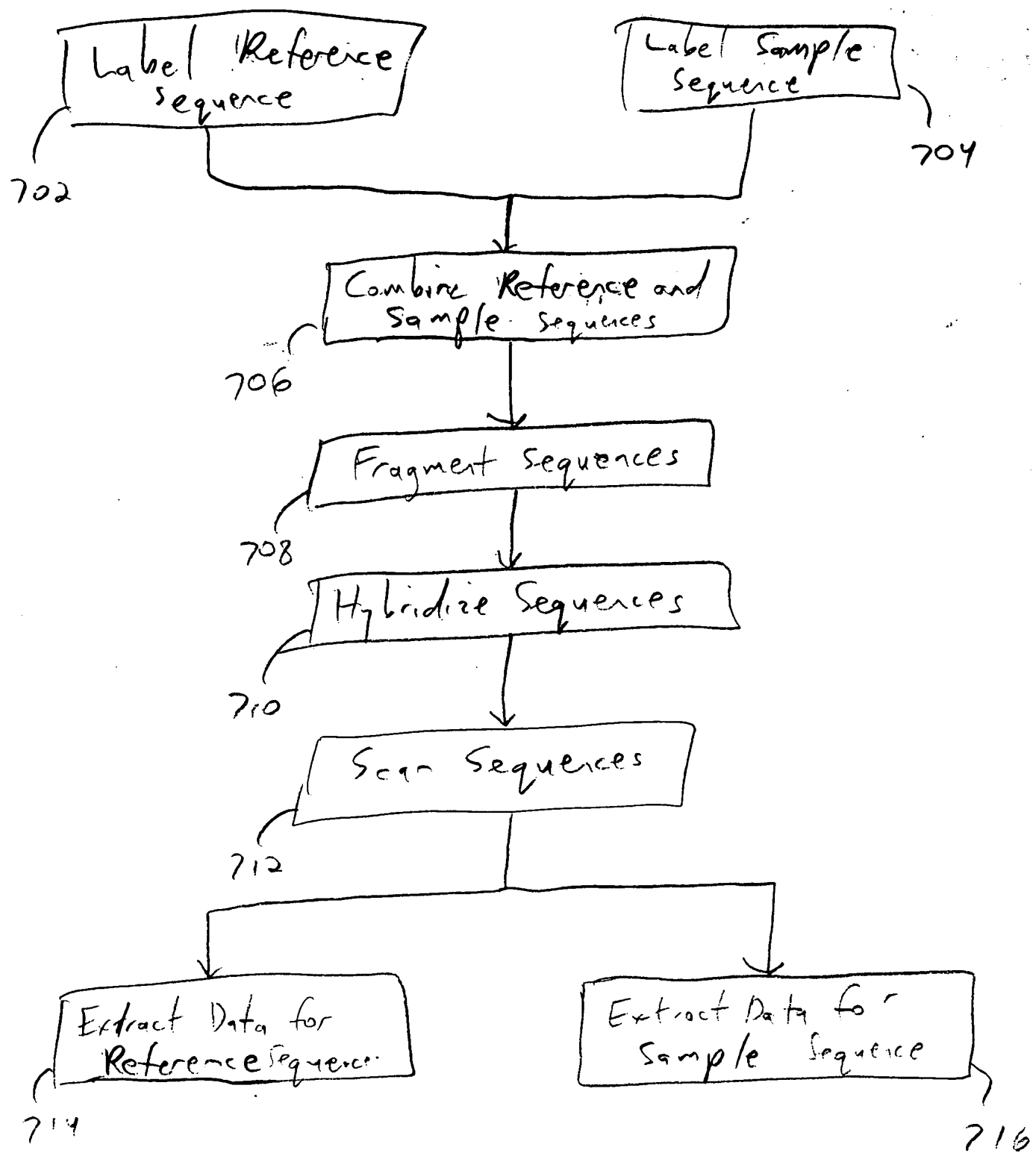


Fig. 7

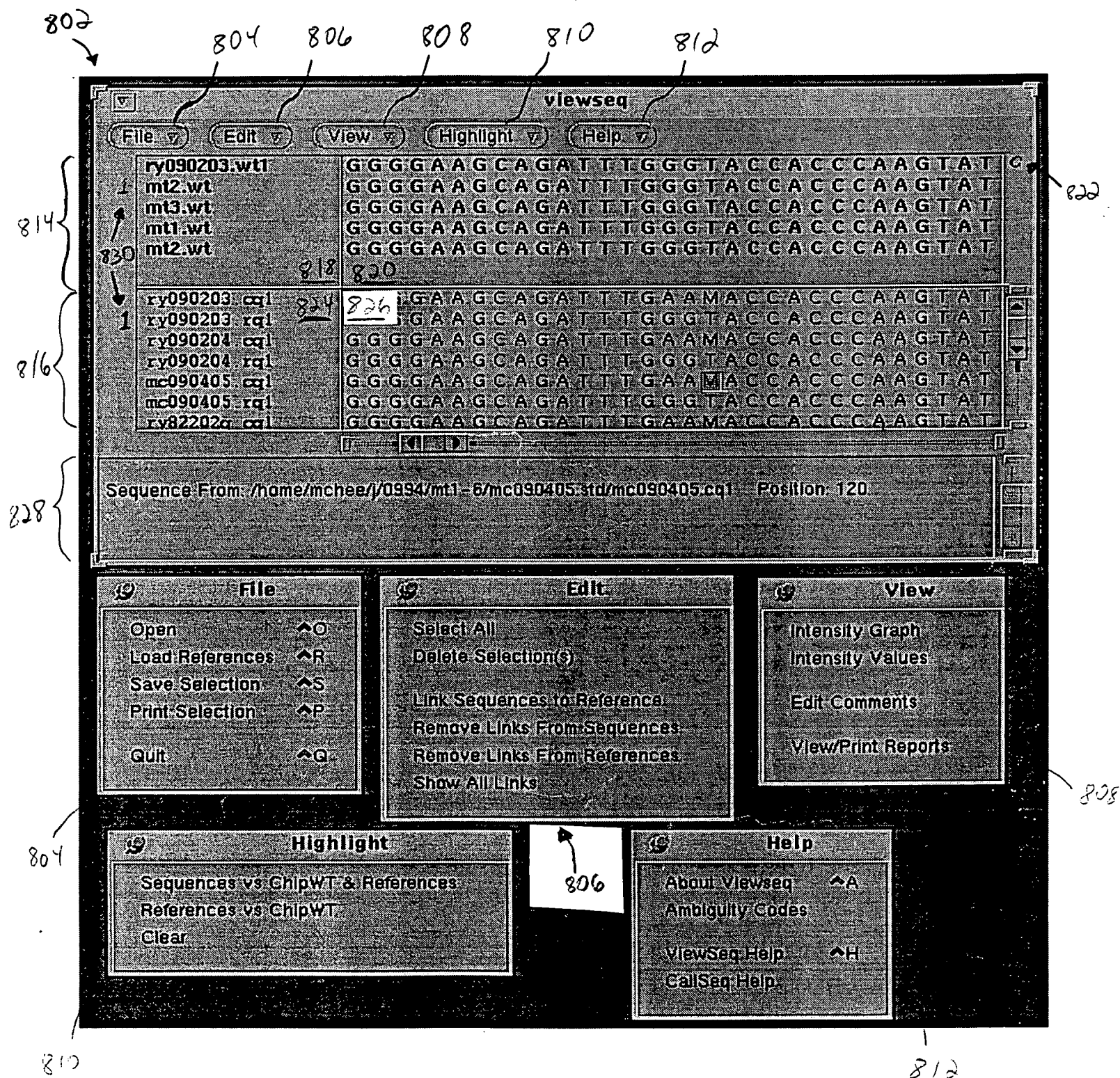


Fig. 8

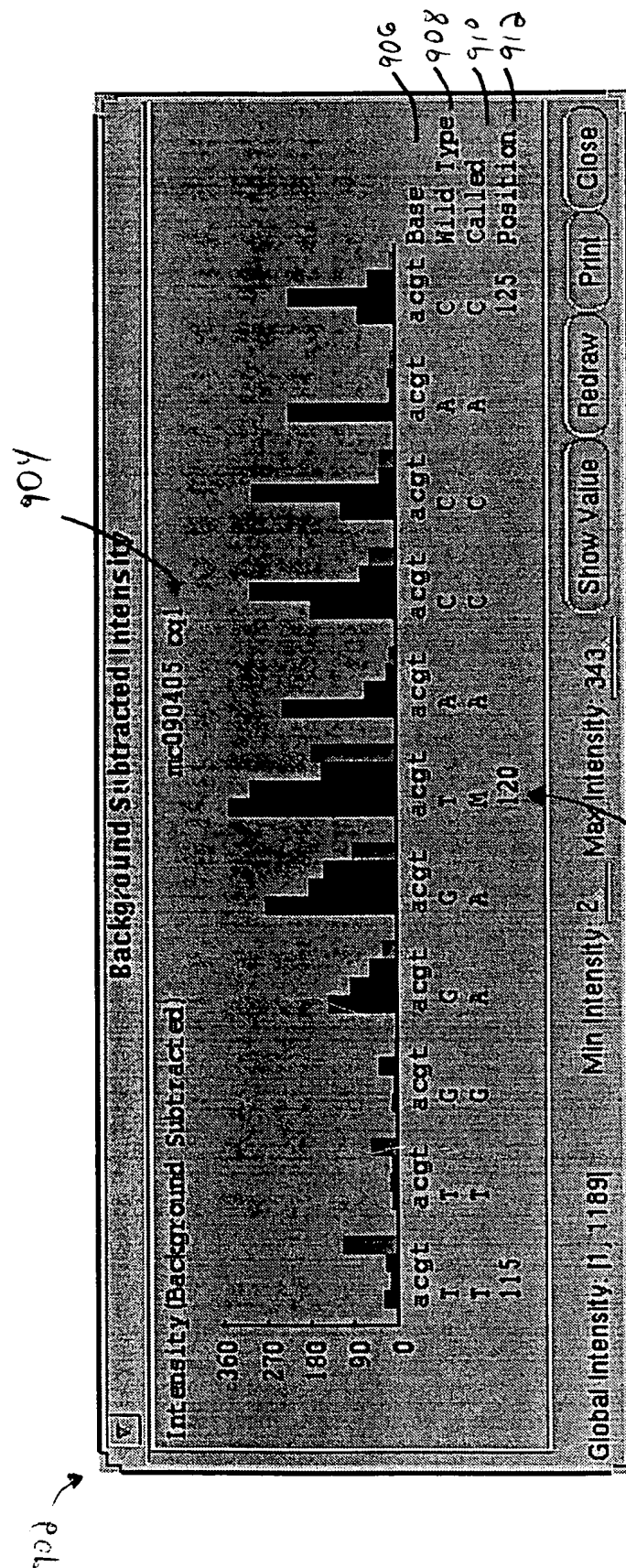
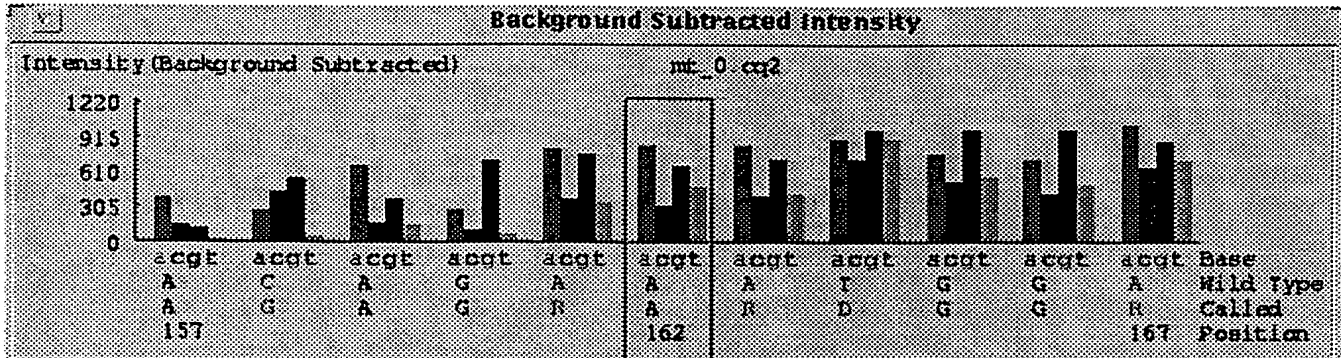


Fig. 9

1002



Global Int

Min Intensity: 1

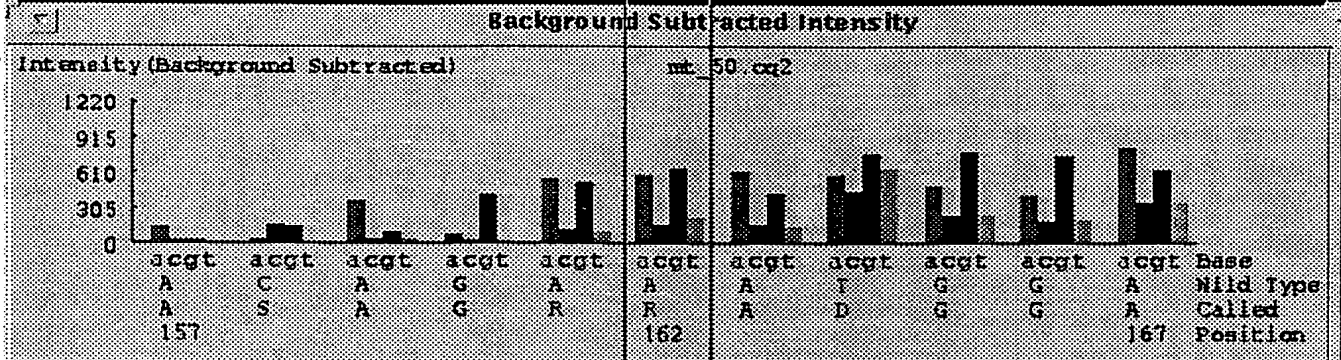
Max Intensity: 1211

Redraw

Print

Close

1004



Global Int

Min Intensity: 1

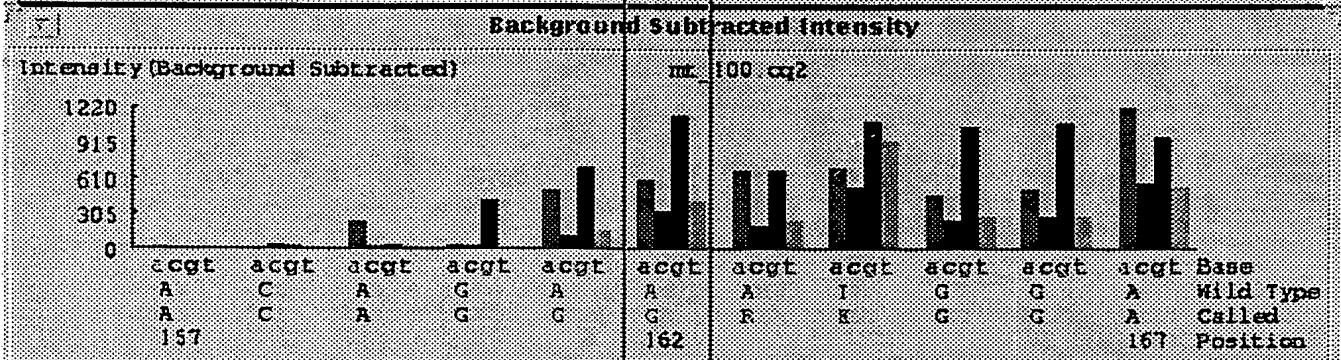
Max Intensity: 1211

Redraw

Print

Close

1006



Global Int

Min Intensity: 1

Max Intensity: 1211

Redraw

Print

Close

1008

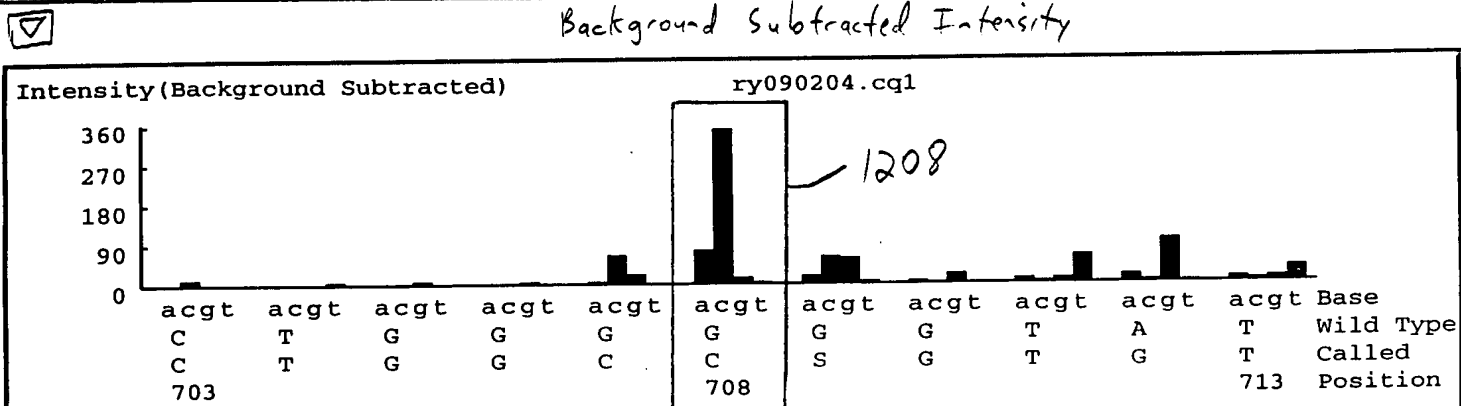
Fig. 10



Fig. 11

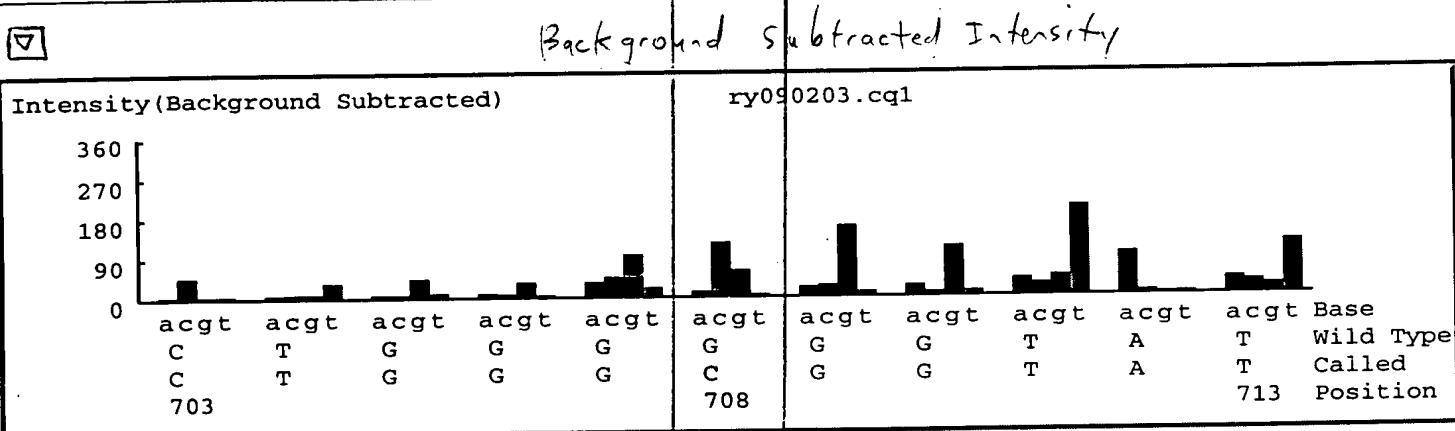
[illegible]

1202



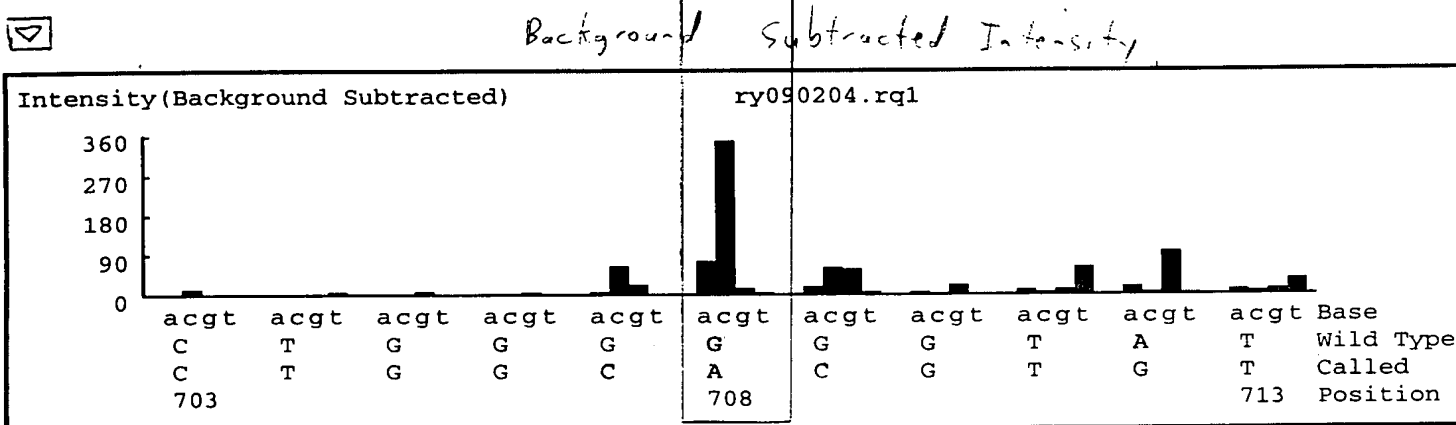
Min. Intensity: L Max Intensity: 360 [Redraw](#) [Print](#) [Close](#)

204



Min Intensity: L Max Intensity: 360 [Redraw](#) [Print](#) [Close](#)

206



Min. Intensity: L Max Intensity: 360 [Redraw](#) [Print](#) [Close](#)

CANCELLED

Fig. 12



Compte rendu

1/4 pre and post-add I treated patients

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4  
A  
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11

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